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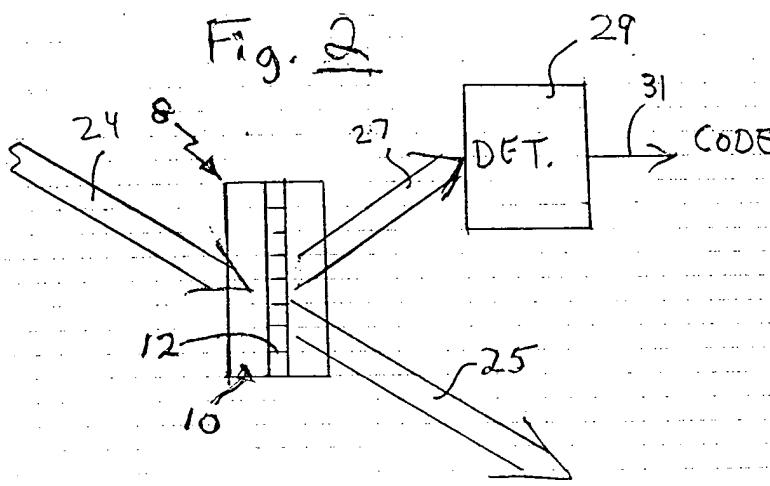
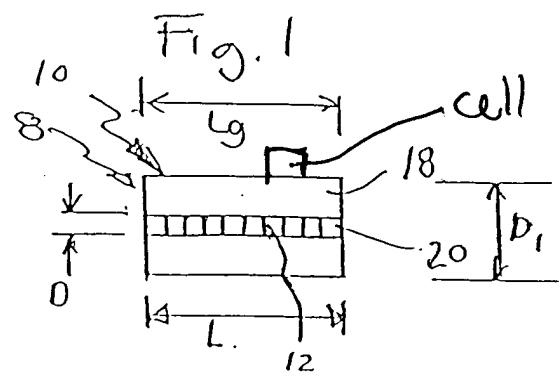
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CC0653

Fig. 3

801

Preparation  
of Materials

814

Provide  $M$  Number  
of Bins <sup>each</sup> having  
Respective Molecule/  
Compound

~800

Provide  $X$  Number  
of ~~sets of~~ Microbeads  
having Unique Codes  
(where  $X = M^N$  (max.))

~802

Loop  $N$  Times  
(one for each chemical)

803 Put all Beads  
in a pool.

804 Determine Code  
of Each Microbead

(Can skip 1st time  
thru for random groupings)

805 Sort and Deposit  
Each Microbead into  
Appropriate Bin

808

Molecule/  
Compound  
Sequence  
Complete?

N

Y

812

Library of  
Finished ~~Chemicals~~  
Chemicals

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Fig. 4

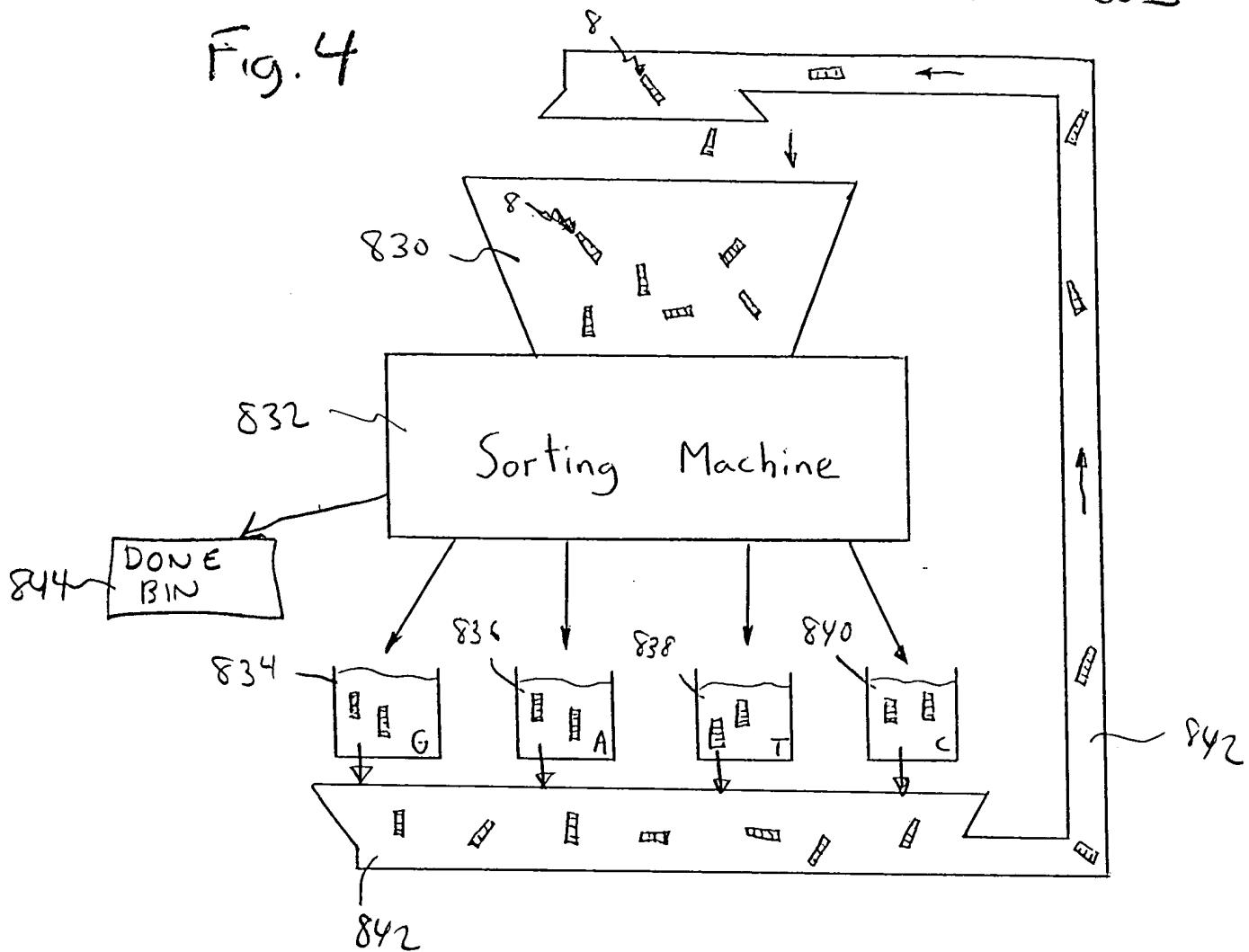


Fig. 5

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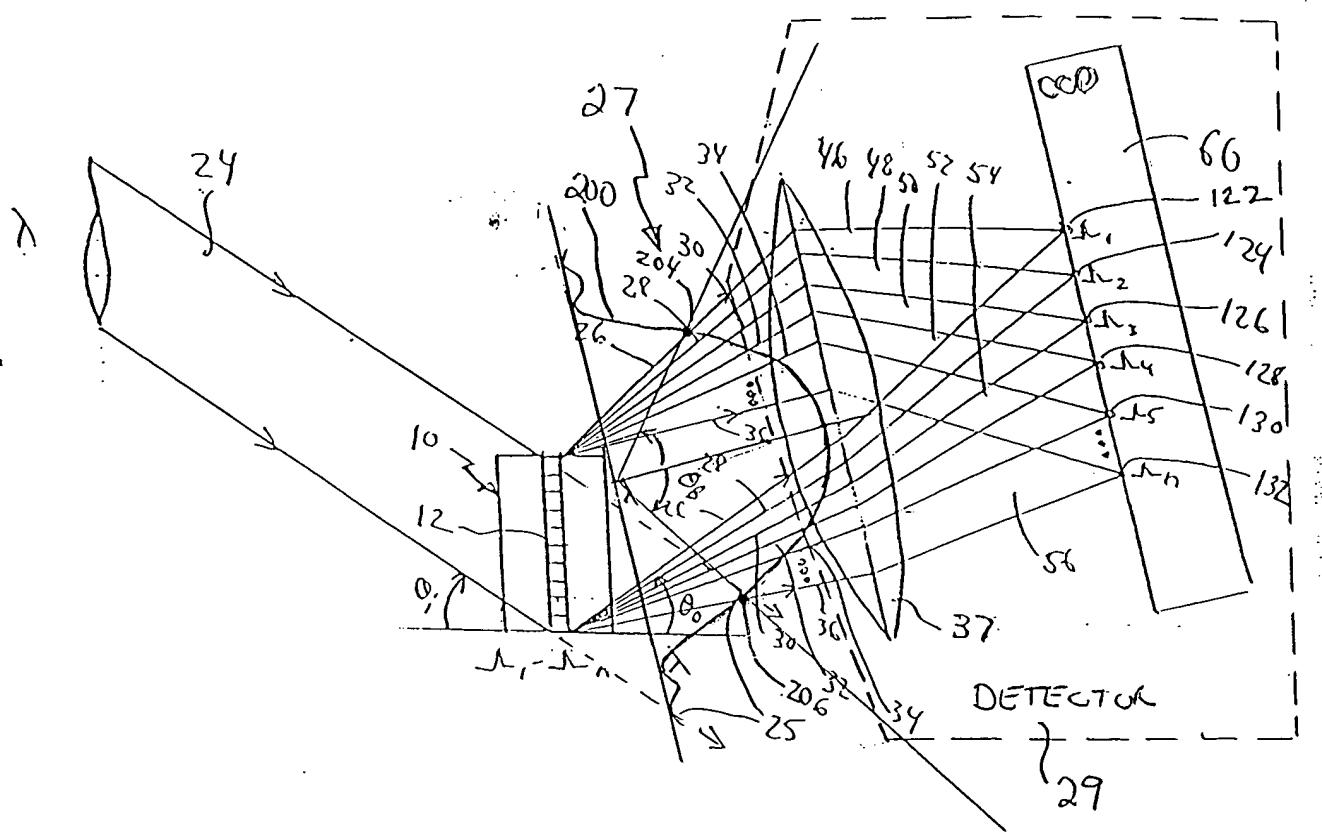


Fig. 6

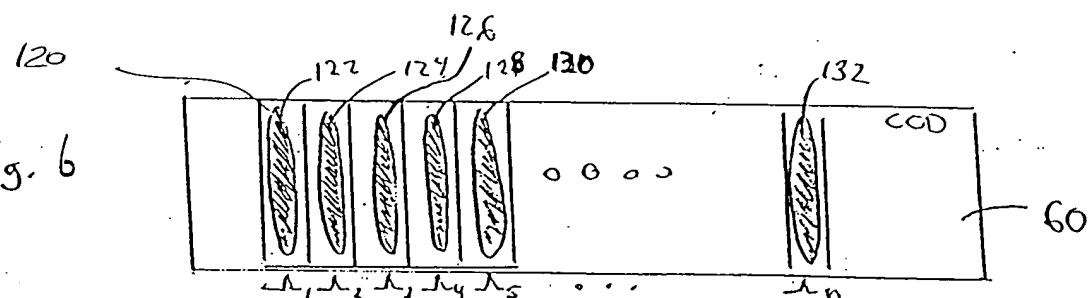


Fig. 7

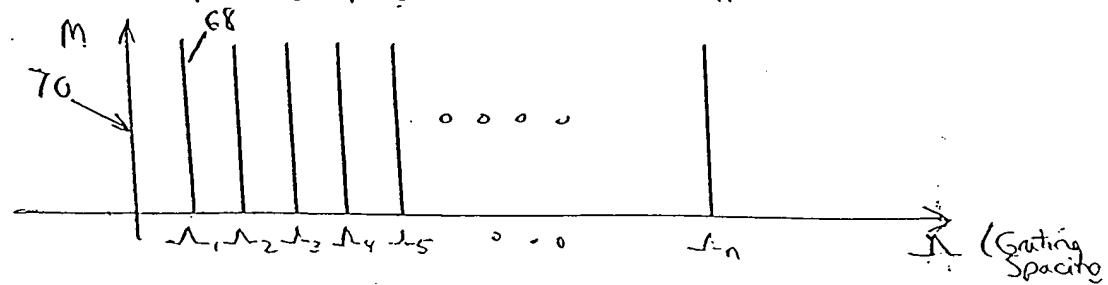
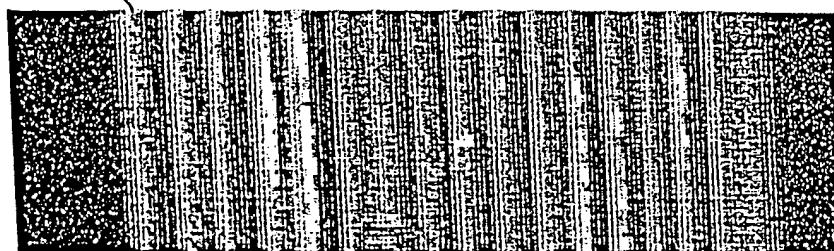


Fig. 8

CC-0653

89 17 bits turned on



Bits: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
(a)

89 7 bits turned on



Bits: 1 0 1 1 0 0 1 0 0 0 1 0 0 1 0 0 1  
(b)

89 9 bits turned on



Bits: 1 1 0 0 0 1 0 1 0 1 0 1 0 0 1 1 1

(c)

Fig. 9

CC-0653

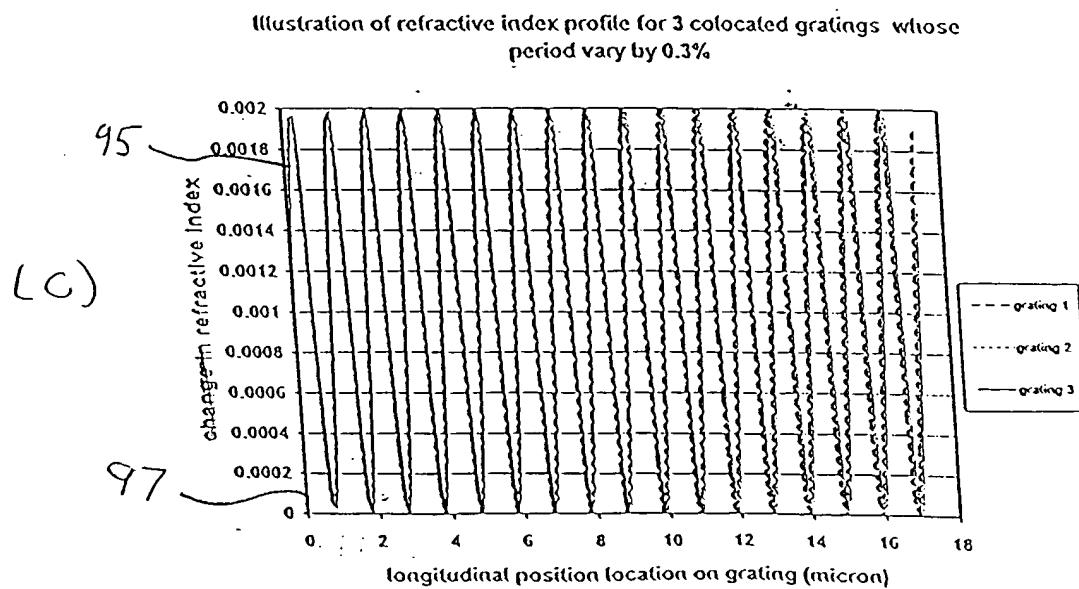
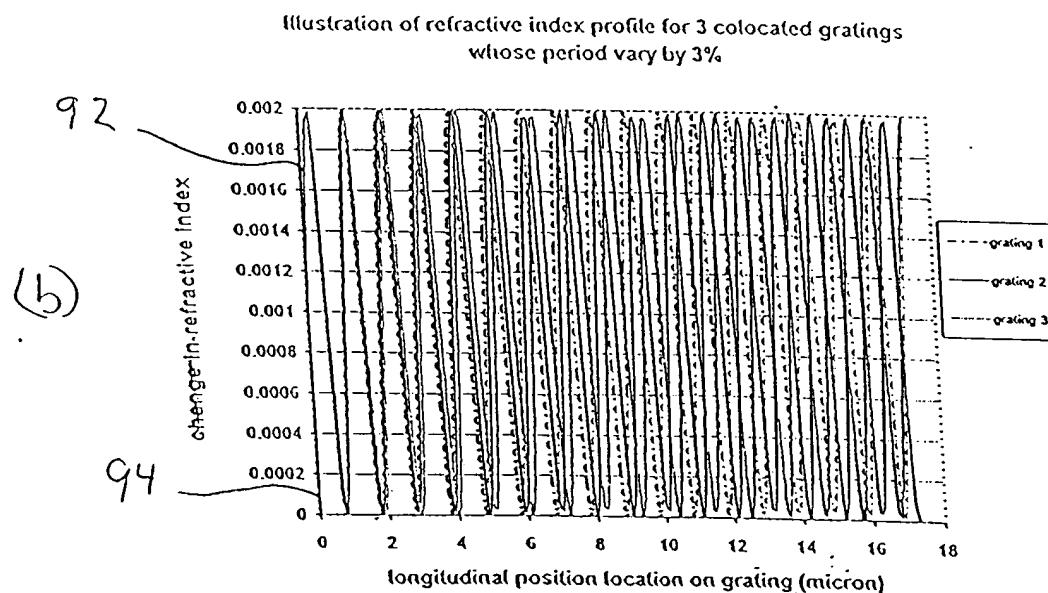
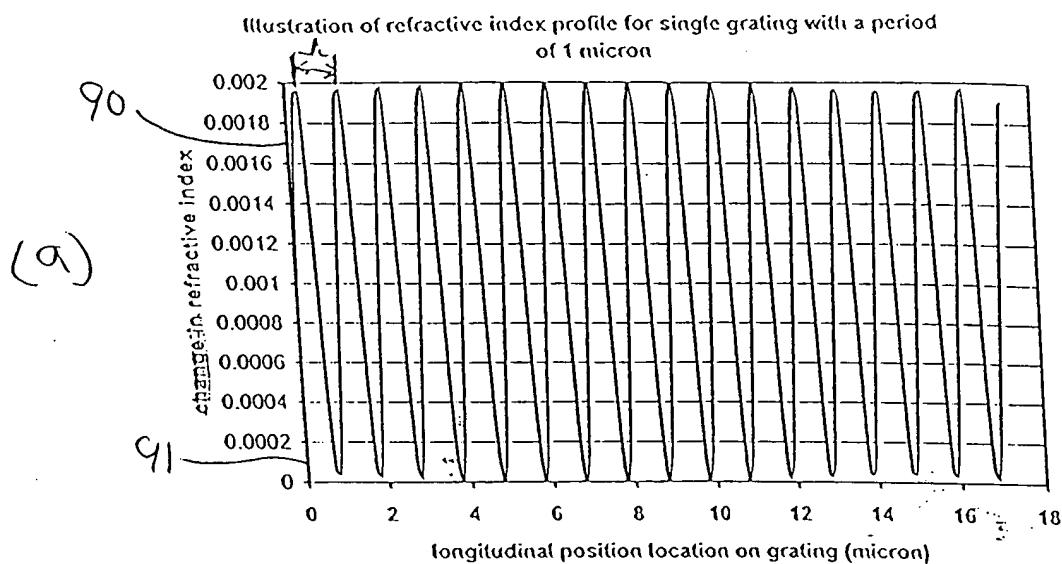


Fig. 9

CC-0653

(d)

Index modulation caused by superposition of 3 gratings where the pitch between each grating varies by 3%.

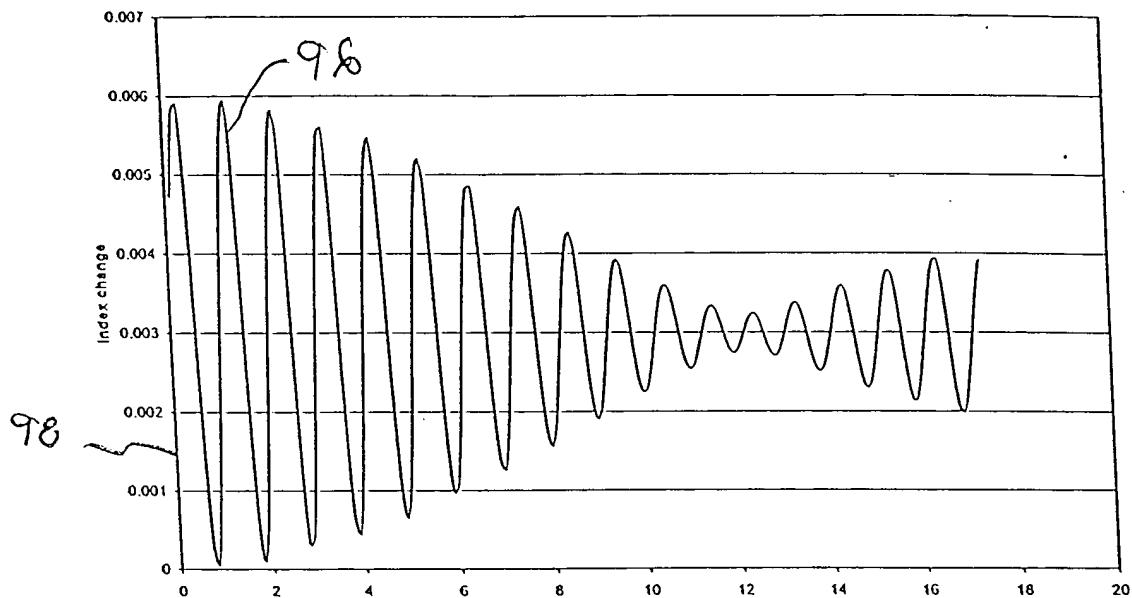


Fig. 10

5653

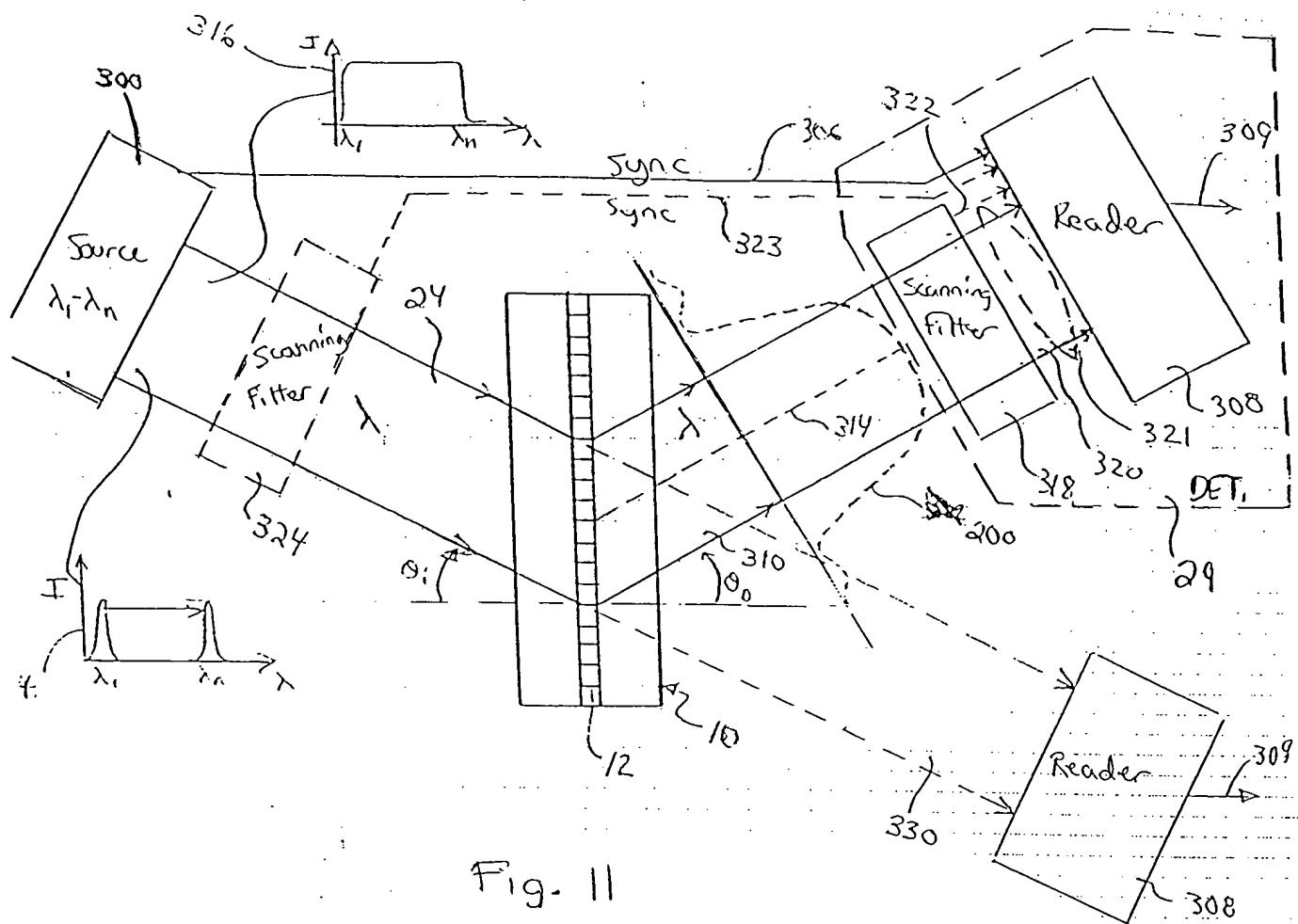


Fig. 11

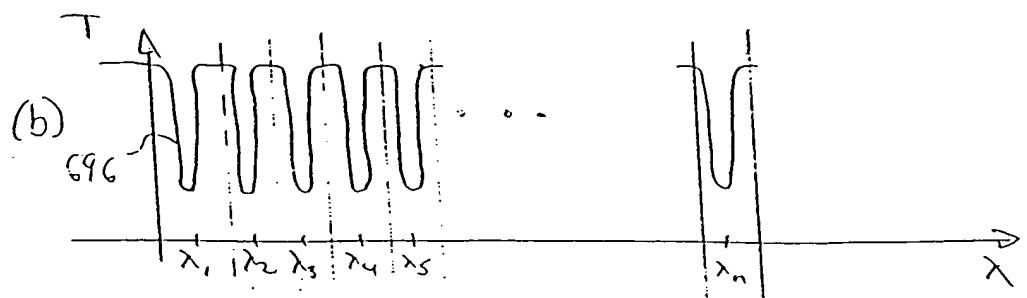
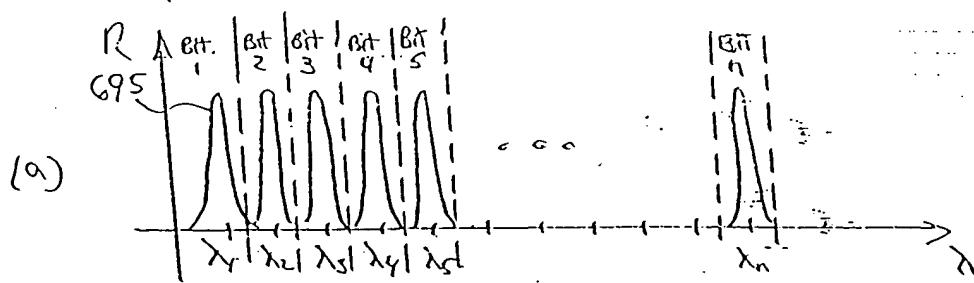
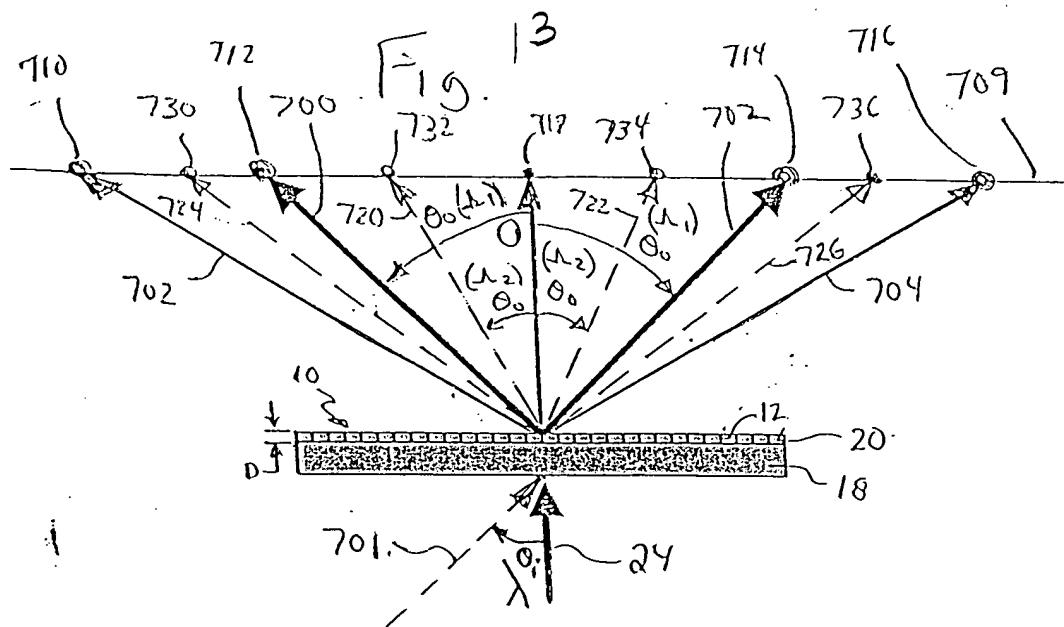
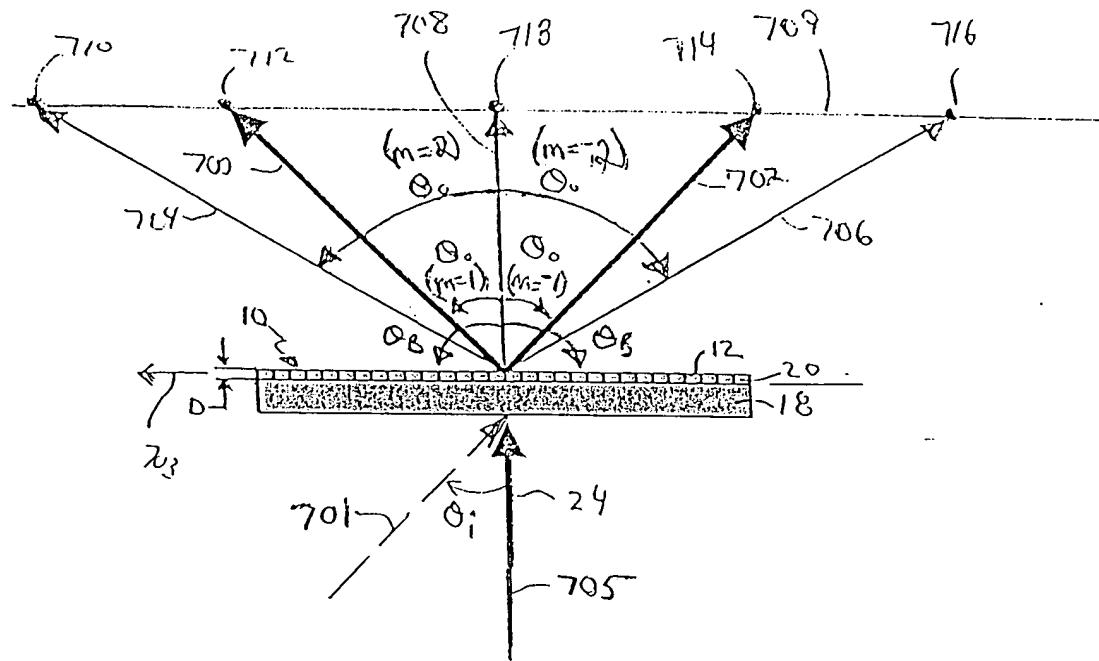


Fig. 12

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CC-0653

Fig. 14

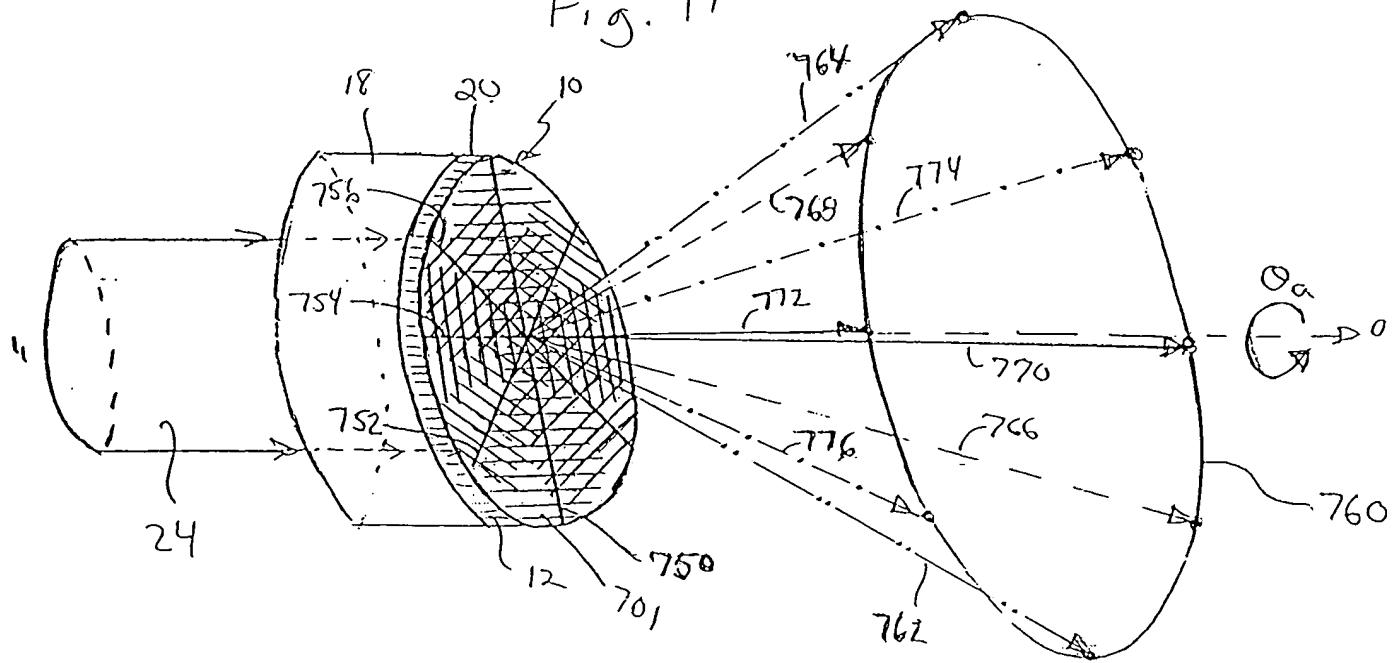


Fig. 15

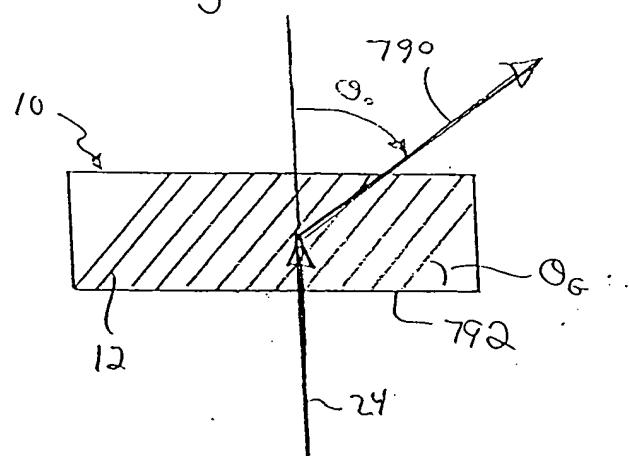


Fig. 16

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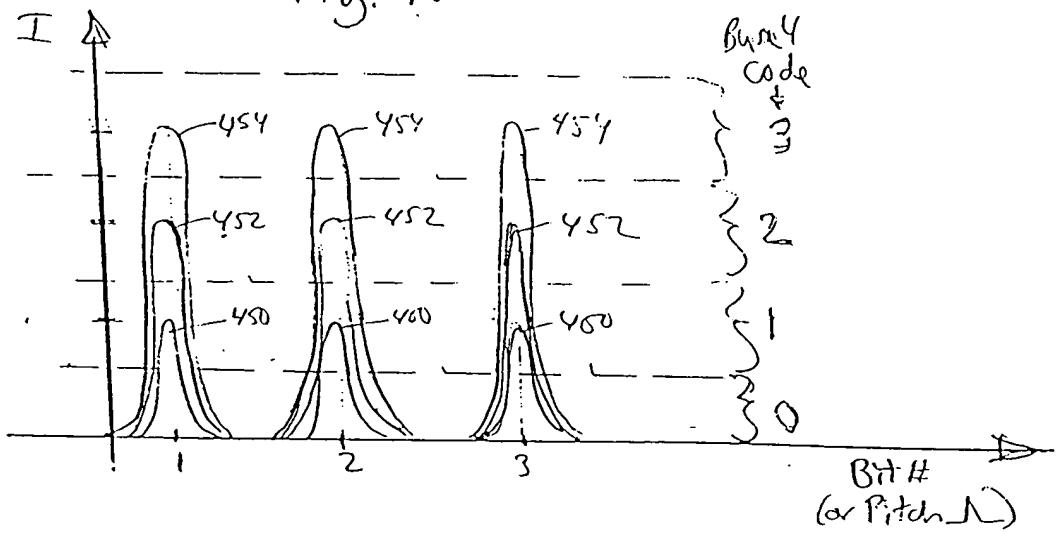


Fig. 17

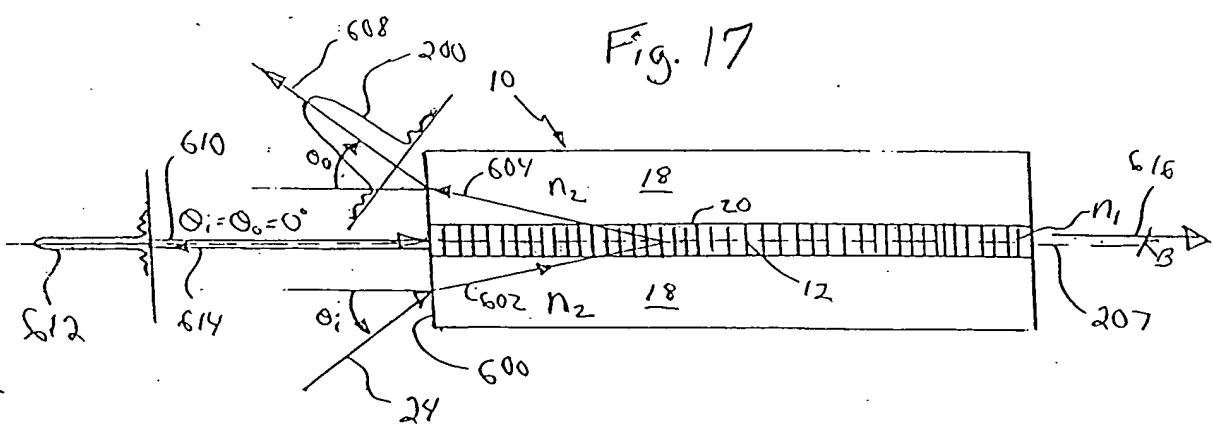


Fig. 20

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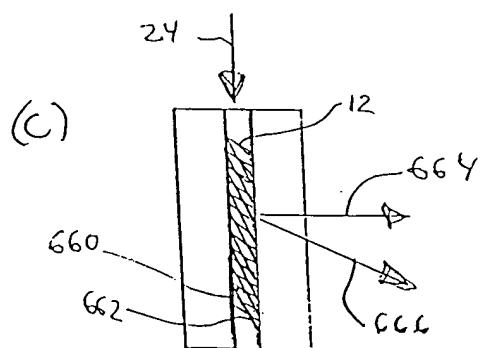
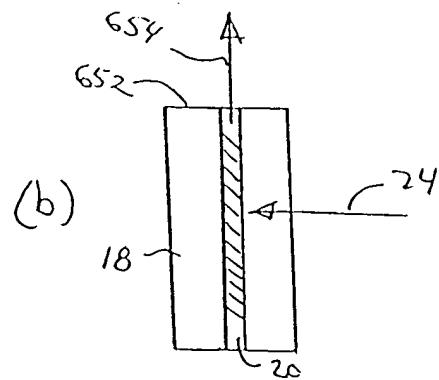
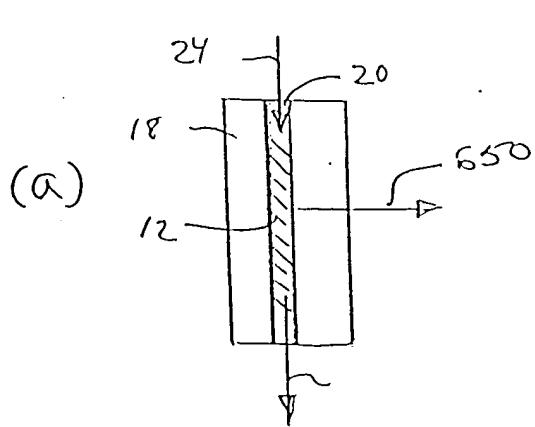


Fig. 18

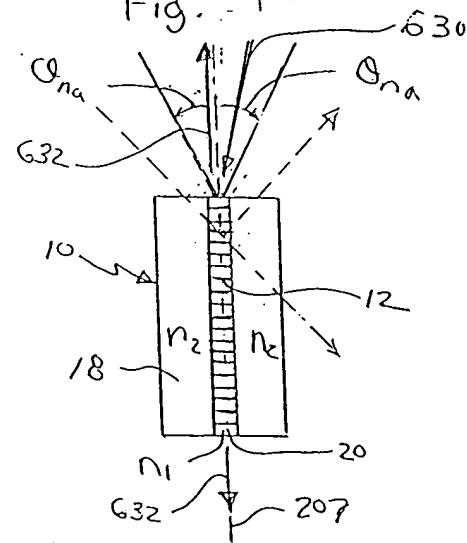
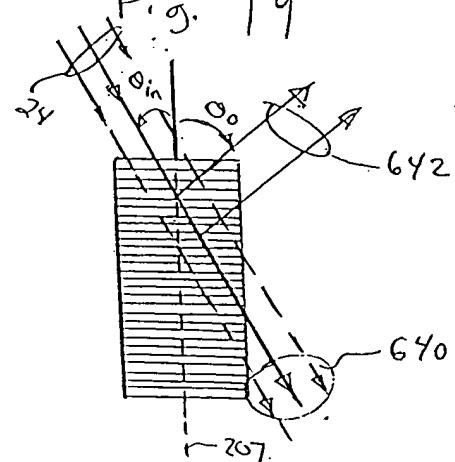
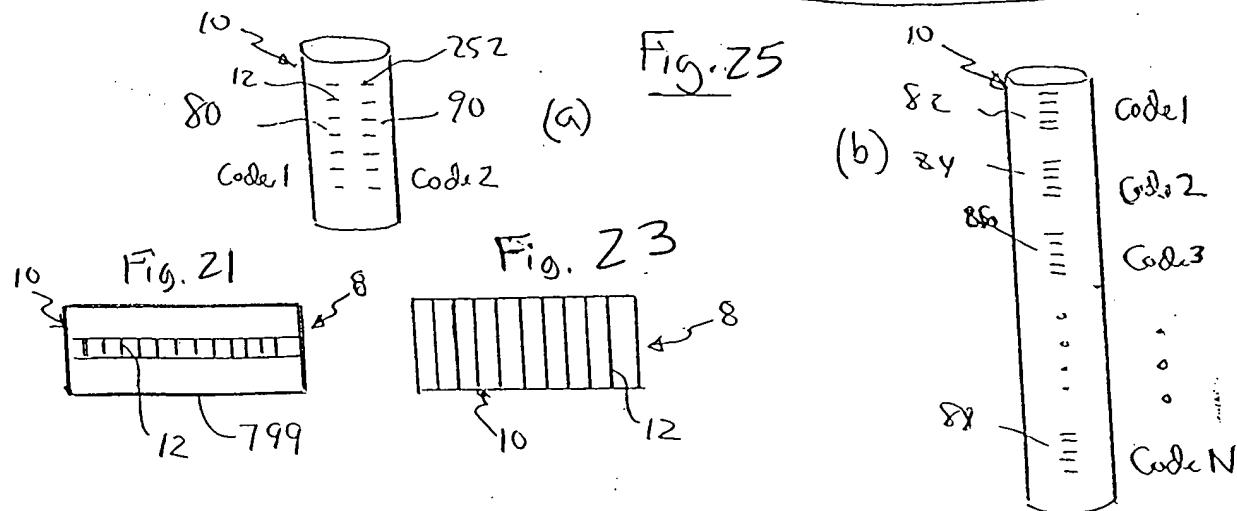
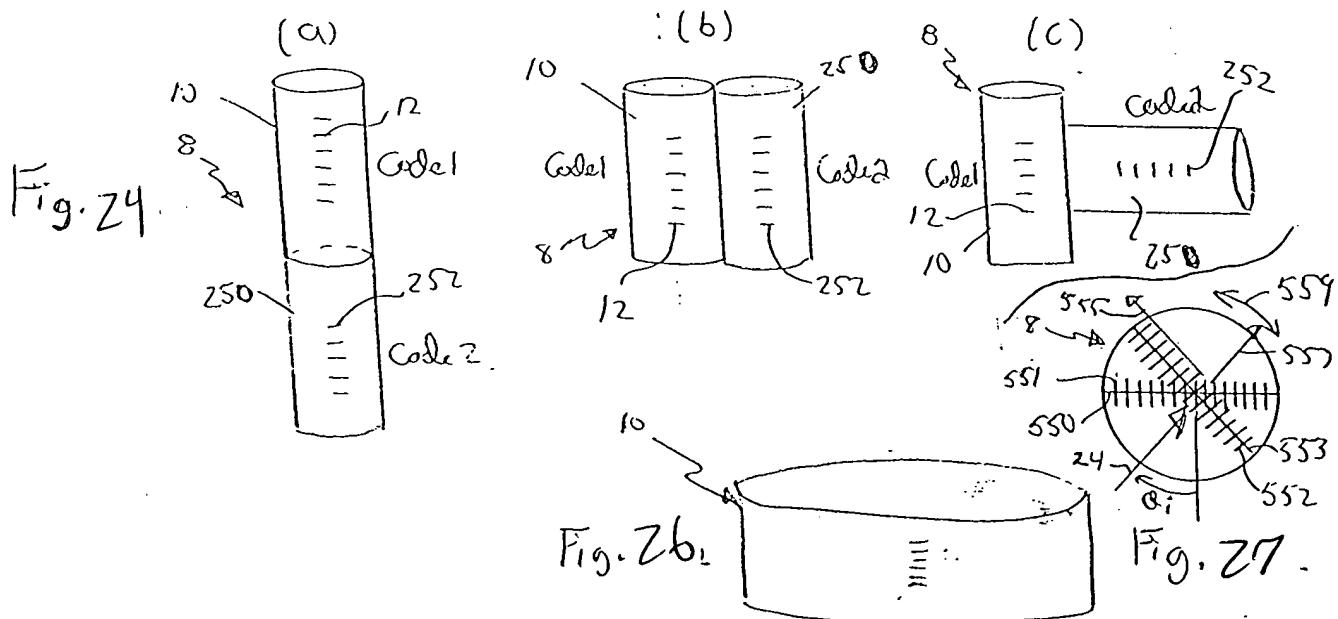
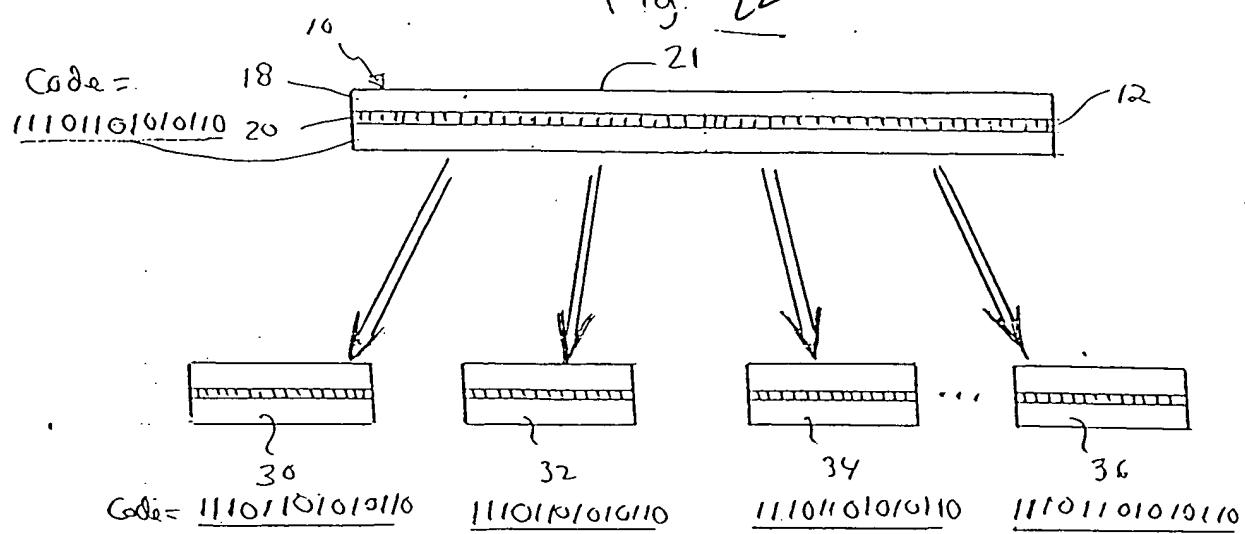


Fig. 19



CC-0653



cc. 0653

Fig. 28

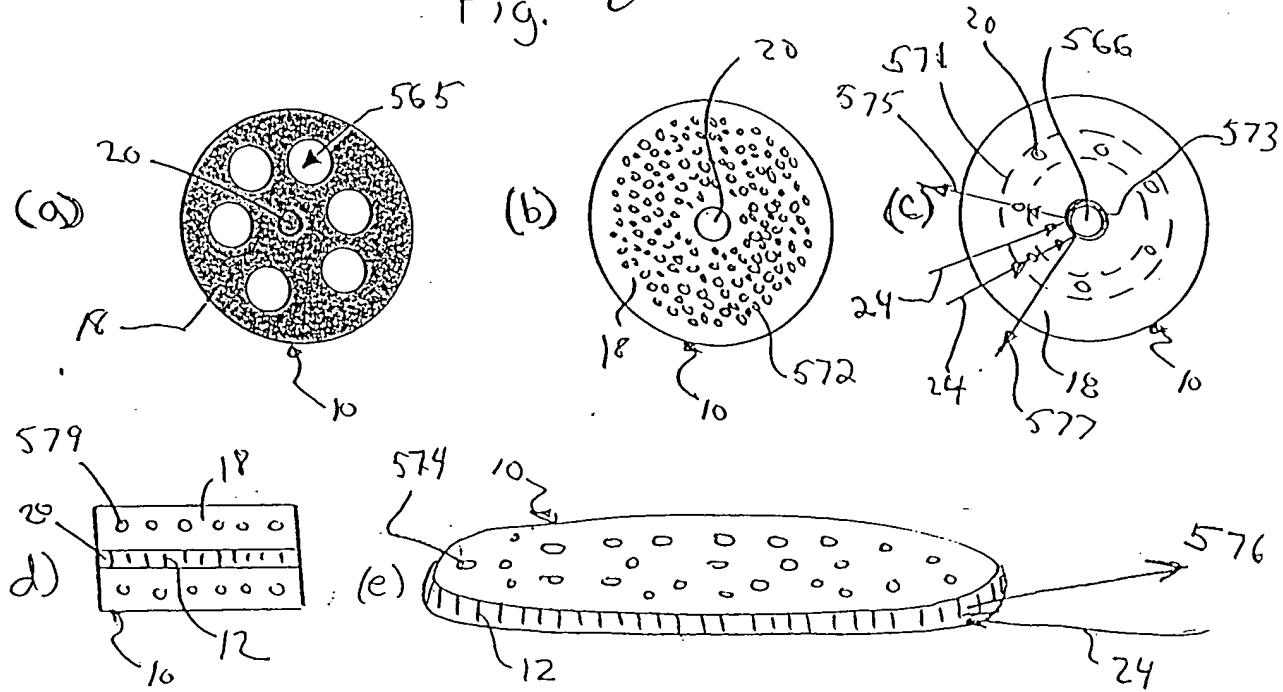


Fig. 29

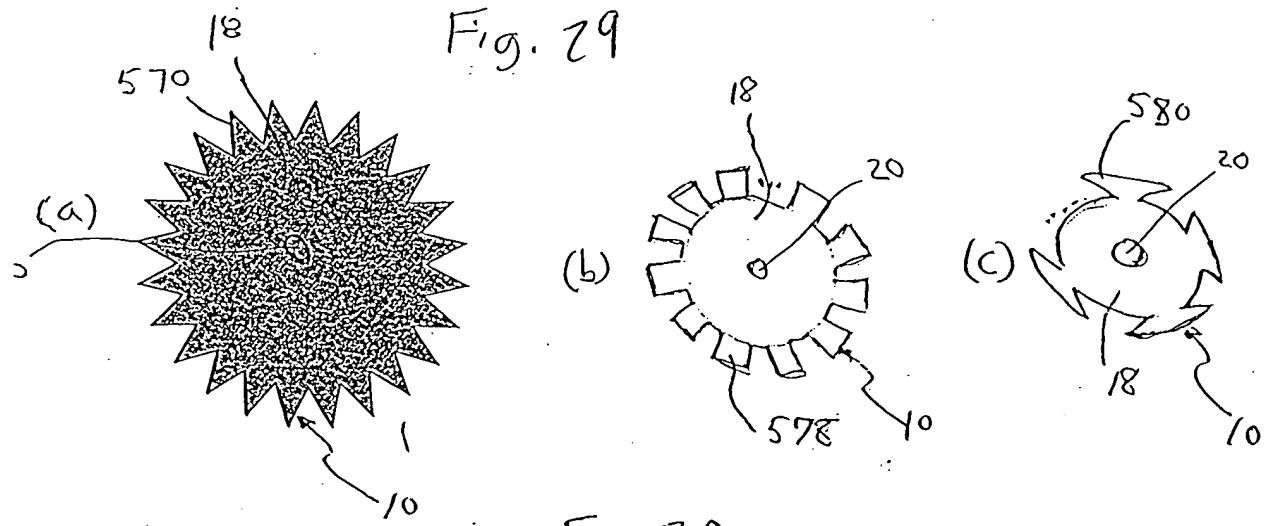
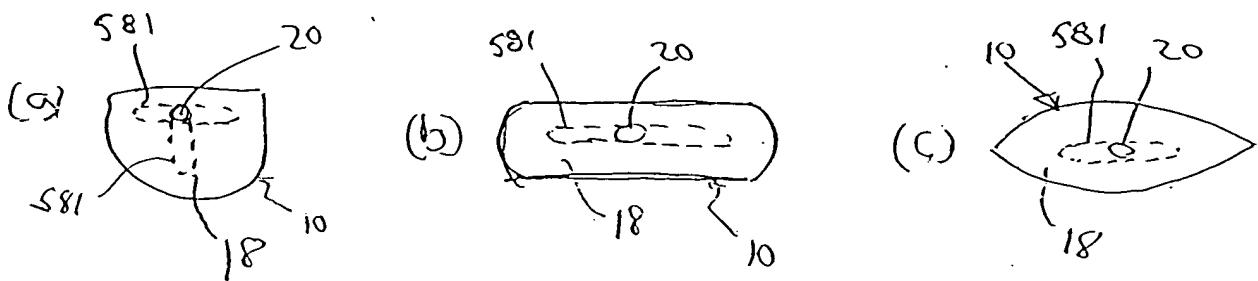


Fig. 30



CC-0653

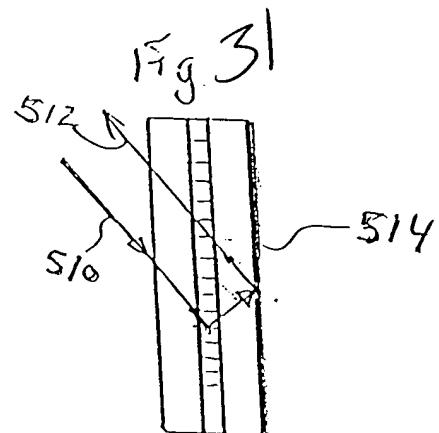


Fig. 32

